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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Application Number 00/976 040

35

### **TRANSMITTAL FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Filing Date June 8, 2001 First Named Inventor Ken A. Berkun Art Unit 2153 **Examiner Name** Glenton B. Burgess Attorney Docket Number 283108007US

EN	CLOSURES (Check all that app	oly)
Fee Transmittal Form	Drawing(s)	After Allowance communication to Technology Center (TC)
Fee Attached	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences
Amendment/Reply	Petition	Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
After Final	Petition to Convert to a Provisional Application	Proprietary Information
Affidavits/declaration(s)	Power of Attorney, Revocation Change of Correspondence Address	Status Letter
Extension of Time Request	Terminal Disclaimer	X Other Enclosure(s) (please Identify below):
Express Abandonment Request  Information Disclosure Statement	Request for Refund  CD, Number of CD(s)	Form PTO/SB/96 Copy of Assignment to Thomson Licensing S.A.
Certified Copy of Priority		Copy of Assignment to America Online, Inc.
Document(s)  Response to Missing Parts/ Incomplete Application  Response to Missing Parts under 37 CFR 1.52 or 1.53	Remarks	Postcard
SIGNATI	JRE OF APPLICANT, ATTORNEY, OF	RAGENT
Firm PERKINS COIE LLF or Individual name		
Signature		
Date September 16, 2004		

I hereby certify that this correspondence i	s being deposited with the U.S. Postal Se	s Express Mail, Airbill No. EV522671823US,
in an envelope addressed to: Commissio	ner for Patents, P.O. Box 1450, Alexandr	Prize as Express Mail, Airbill No. EV522671823US, a, Va. 22313-1450, on the date shown below.
Dated: 9/16/64	Signature	(Michael J. Smith)

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### REVOCATION OF POWER OF ATTORNEY and APPOINTMENT OF NEW POWER OF ATTORNEY

09/876,943
June 8, 2001
Ken A. Berkun
2153
Glenton B. Burgess
283108007US

I hereby revo	ke all previo	us powers of attorn	ey given in ti	e above-ide	ntified application:		
☐ A Power	of Attorney is	s submitted herewit	th.				
OR		•					<del></del>
☑ I hereby a	☑ I hereby appoint the practitioners at Customer Number:			25096			
☑ Pleașe ch	nange the co	rrespondence addr	ess for the al	ove-identifi	ed application to:	•	
	address ass comer Numb		25096				
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City				State		Zip	
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I am the:							. 5.7
☐ App	licant/Invent	or.			•		
	•	ord of the entire inte r 37 CFR 3.73(b) is			B/96)		
		SIGNATUR	E of Applica	nt or Assig	nee of Record		
Name	Alexand	ler Franco					
Signature	de	kn					
Date	8/	9/04		Telephone	(703) 265-350	7	
NOTE: Signets forms if more th	ures of all the i	nventors or assignees ure is required, see bel	of record of the ow.*	entire interes	or their representative(s)	ate ted	ulred. Submit multiple
⊠ 'Tob	ol of one form i	s submitted.					

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiatily is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application from to the USPTO. Time will very depending upon the included case. Any comments on the amount of time you require to complete this form, and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need existance in completing the form, call 1-800-PTO-9199 and select option 2.

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perwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid CMB control number. STATEMENT UNDER 37 CFR 3.73(b) Ken A. Berkun et al. Applicants: June 8, 2001 Filed/Issue Date: Application No.: 09/876,943 INTERPRETIVE STREAM METADATA EXTRACTION , a a corporation of the State of Delaware America Online, Inc. (Name of Assignes) (Type of Assignee, e.g., corporation, partnership, university, government agoncy, etc.) states that it is: 1. the assignee of the entire right, title, and interest; or an assignee of the entire right, title and interest. The extent (by percentage) of its ownership interest if \_ in the patent application/patent identified above by virtue of either. A. [ ] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was \_ Frame \_\_\_\_\_ or for which a copy . recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_ thereof is attached. OR B. [X] A chain of title from the inventor(s), of the patent application/patent identified above, to the current essignee as shown below: To: Thomson Licensing S.A. 1. From: Ken A. Berkun et al. The document was recorded in the United State Patent and Trademark Office at Reel 012743, Frame 0793, for which a copy thereof is attached. To: America Online, inc. 2. From: Thomson Licensing S.A. A copy of the Patent Assignment, which is being submitted to the Assignment Branch of the United States Patent and Trademark Office for recording concurrently herewith, is attached. To: 3. From: The document was recorded in the United State Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_, or for which a copy thereof is attached. [ ] Additional documents in the chain of title are listed on a supplemental sheet. [ ] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Alexander Franco Typed or printed name 4 am (703) 265-3507 Signature Telephone number **Patent Counsel** 

This obligation of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will very depending upon the individual case. Any comments on the amount of time you require to complete this form, end/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Petent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22318-1450.

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SP 16 703 SP 16 704 E

U.S. Department of Commerce RECORDATION FORM COVER SHEET A 170 1595 Patent and Trademark Office (Rev. 10/02, modified) PATENTS ONLY OMB No. 0651-0027 (exp. 6/30/2005) To the Honorable Commissioner for Patents: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): Name of conveying party(ies): America Online, Inc. Thomson Licensing S.A. 22000 AOL Way Dulles, VA 20166-9323 Additional names of conveying parties attached? 

Yes 

No 3. Nature of conveyance: ☐ Security Agreement ☐ Merger Reassignment ☐ Change of Name ☐ Other Additional names of receiving parties attached? 

Yes 

No Execution date: November 13, 2003 4. Application number(s) and/or patent number(s): If this document is being filed together with a new application, the execution date of the application is: B. Patent No.(s) A. Patent Application No.(s) 09/876,943 Additional numbers attached: 

Yes 

No Total No. of applications and patents 5. Name and address of party to whom involved: one (1) correspondence concerning document should be mailed: 7. Total fee (37 CFR §3.41): \$40.00 Customer No. 25096 Steven D. Lawrenz □ Enclosed Perkins Coie LLP ☐ Charge Deposit Account No. 50-0665 P.O. Box 1247 Seattle, Washington 98111-1247 (206) 359-8000 8. Deposit Account No. 50-0665 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Steven D. Lawrenz Date Sig/nature Name of Person Signing Total number of pages, including cover sheet, attachments and document: [13]

### PATENT ASSIGNMENT

WHEREAS, Thomson Licensing S.A., a French société anonyme having a principal place of business at 46, Quai Alphonse Le Gallo, 92100 Boulogne-Billancourt France ("Assignor"), is the owner of the entire right, title and interest in and to the patent applications set forth in attached Schedule A hereto and in and to the inventions disclosed therein (collectively, the "Assigned Patent Rights");

WHEREAS, America Online, Inc., a Delaware corporation, ("Assignee"), Assignor, Thomson Inc., a Delaware corporation, and Singingfish.com, Inc., a Washington corporation, are parties to that certain Asset Purchase Agreement dated November 13, 2003 (the "Asset Purchase Agreement"), and Assignee, Assignor, Thomson, S.A., a French société anonyme and the parent company of Assignor, Thomson Inc. and Singingfish.com, Inc. are parties to that certain Transfer Agreement dated November 13, 2003 (the "Transfer Agreement"), pursuant to which Assignee acquired all right, title and interest in and to the Assigned Patent Rights; and

WHEREAS, this Patent Assignment is entered into pursuant to, and as a condition of the closing of the transactions contemplated under, the Asset Purchase Agreement and the Transfer Agreement;

NOW, THEREFORE, for good and valuable consideration acknowledged by Assignor to have been received in full from Assignee and pursuant to the terms of the Asset Purchase Agreement and Transfer Agreement:

- 1. Assignor hereby conveys, transfers, assigns and delivers unto Assignee all Assignor's right, title and interest in and to said Assigned Patent Rights, together with all patents issuing on said Assigned Patent Rights, and any reissues, reexaminations, renewals, extensions, substitutions, registrations, confirmations, divisionals, continuations, and continuations-in-part of such patents and said Assigned Patent Rights, including any patents and patent applications which claim priority to a common priority document in the priority chain of any of the foregoing, and foreign counterparts of any of the foregoing, and together with all rights to sue for past and future infringement or misappropriation thereof (including the right to sue for pre-issuance royalties).
- 2. The terms and covenants of this Patent Assignment shall inure to the benefit of Assignee, its successors and assigns, and shall be binding upon Assignor and its successors and assigns.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, Assignor has caused this Patent Assignment to be executed by its duly authorized representatives effective this 13th day of November 2003.

THOMSON LICENSING S.A.

<sup>3</sup>. <del>/ - -</del>

Name: Didier Huck

Title: Chairman & CEO

ATTEST:

### SCHEDULE A

### "Exhibit One Patent Rights"

Title	Inventor(s)	Country	Application Number	Filing Date
INTERNET STREAMING MEDIA WORKFLOW ARCHITECTURE	DEROSA John, ABAJIAN Aram Christian, ALEXANDER Robin, DAHL Austin, LEE Scott, PORTER Charles, REHM Eric, KOLAR Jennifer, SUDANAGUNTA Srinivasan	US only	09/876941	08 June 0]
FULL-TEXT RELEVANCY RANKING	DIAMOND Theodore George, HENDRICK Daniel Allen, REHM Eric Carl, REISLAND Melissa Anne	US only	09/876925	08 June 01
GROUP DUPLICATES AND VARIATIONS	ABAJIAN Aram Christian	US only	09/878877	11 June 01
FUZZY DATABASE RETRIEVAL	PRINCE John	US only	09/878866	l! June 01
NTERNET SEED RAWLING	JENSEN-GRAY Sean S.	US only	09/878876	l I June 01

"Exhibit One Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
A SYSTEM AND PROCESS FOR NETWORK SITE FRAGMENTED SEARCH	SHANNON Paul, MILLER Brad, LEE Scott, KOLAR Jennifer	PCT	US01/43303	20 Nov 01
		CN	01822162.9	20 Nov 01
		DE	N/A <sup>(*)</sup>	N/A
		EP	01988150.7	20 Nov 21
	·	FR	N/A	N/A
		GB	N/A	N/A
		IN	578/KOL NP/03	20 Nov 01
		IT	N/A	N/A
		JP	545322/02	20 Nov 01
		KR	03-7006820	20 Nov 01
	į	мх	03/004447	20 Nov 01
		US	10/432,258	20 Nov 01

<sup>(\*)</sup> Not Available

"Exhibit One Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
A SYSTEM AND PROCESS FOR SEARCHING A NETWORK	PORTER Charles, REICHHOLD Jonathan, REHM Eric	PCT	US01/43247	20 Nov 01
		Си	01822165.3	20 Nov 01
		DE	N/A	N/A
		EP	US01/43247	20 Nov 01
		FR	N/A	N/A
		GB	N/A	N/A
		IN	579/KOL NP/03	20 Nov 01
		IT	N/A	N/A
		лP	545381/02	20 Nov 01
		KR	03-7006786	20 Nov 01
	1	мх	03/004446	20 Nov 01
		J <b>S</b>	10/432,306	20 Nov 01

### "Exhibit One Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
A SYSTEM AND PROCESS FOR MEDIATED CRAWLING	EVANS Philip, ALEXANDER Robin, SHANNON Paul	РСТ	US01/43248	20 Nov 01
		CN	01822163.7	20 Nov 01
		DE	N/A	N/A
		EP	01988143.2	20 Nov 01
		FR	N/A	N/A
		GB	N/A	N/A
		IN	589/KOL NP/03	20 Nov 01
		IT	N/A	N/A
		ЛР	545321/02	20 Nov 01
		KR	03-7006783	20 Nov 01
		мх	03/004448	20 Nov 01
		US	10/432,388	20 Nov 01

### "Exhibit One Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
METHOD AND ARCHITECTURE FOR THE RULE BASED INDEXING OF MULTIPLE DATA STREAMS	NOWITZ Jonathan	U.S.	10/625,141	23 July 03
ASSERTION-BASED METADATA COLLECTION AND ENHANCEMENT SYSTEM	SUDANAGUNTA Srinivasan	N/A	N/A	N/A

### "Exhibit Two Patent Rights"

Title	Inventor(s)	Country	Application Number	Filing Date
INTERPRETIVE STREAM METADATA EXTRACTION	REHM Eric, BERKUN Ken, DAHL Austin, KOLAR Jennifer, LEE Scott, MCRAE Shannon, MILLER Brad, PRINCE John, SUDANAGUNTA Srinivasan, NOWITZ Johnathan	US only	09/876943	08 June 01
		*		
METADATA QUALITY IMPROVEMENT	PORTER Charles, ABAJIAN Aram Christian, ALEXANDER Robin Andrew, BERKUN Ken Alan, DAHL Austin David, DEROSA John Anthony, LEE Scott, REHM Eric Carl, SUDANAGUNTA Srinivasan, NOWITZ Johnathan	US only	09/876942	08 June 01

"Exhibit Two Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
A SYSTEM FOR UNIFIED EXTRACTION OF MEDIA OBJECTS	KOLAR Jennifer, MILLER Brad, LEE Scott	PCT	US01/43305	20 Nov 01
		CN	01822164.5	20 Nov 01
		DE	N/A	N/A
		EP	01987023.7	20 Nov 01
		FR	N/A	N/A
		GB	N/A	N/A
		M	577/KOL NP/03	20 Nov 01
		IT	N/A	N/A
		JP	545323/02	20 Nov 01
		KR	03-7006821	20 Nov 01
		MX	03/004445	20 Nov 01
		US	10/432,316	20 Nov 01

"Exhibit Three Patent Rights"

Title	Inventor(s)	Country	Application Number	Filing Date
METHOD OF SIZING AN EMBEDDED MEDIA PLAYER PAGE	HAYWARD Monte Duane	PCT	US01/51373	24 Oct 01
·		BR	PI0114879-6	24 Oct 01
		СИ	01817867.7	24 Oct 01
		DE	N/A	N/A
		EP	01989347.8	24 Oct 01
		FR	N/A	N/A
		GB	N/A	N/A
		IN	438/KOL NP/03	24 Oct 01
		IT	N/A	N/A
	•	л	549056/02	24 Oct 01
		KR	03-7005382	24 Oct 01
		мх	03/003495	24 Oct 01
		us	10/415210	24 Oct 01

"Exhibit Three, Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
METHOD OF COLLECTING DATA USING AN EMBEDDED MEDIA PLAYER PAGE	HAYWARD Monte Duane	PCT	US01/51228	24 Oct 01
		BR	PI0114882-6	24 Oct 01
		CN	01817868.5	24 Oct 01
		DE	N/A	N/A
		EP	01994526.0	24 Oct 01
		FR	N/A	N/A
		GB	N/A	N/A
		IN	436/KOL NP/03	24 Oct 01
		IT	N/A	N/A
		JP	558150/02	24 Oct 01
		KR	03-7005632	24 Oct 01
		мх	03/003493	24 Oct 01
		US	10/415216	24 Oct 01

### "Exhibit Three, Patent Rights," Continued

Title	Inventor(s)	Country	Application Number	Filing Date
METHOD OF DISSEMINATING ADVERTISEMENTS USING AN EMBEDDED MEDIA PLAYER PAGE	HAYWARD Monte Duane	PCT	US01/51227	24 Oct 01
		BR	PI0114830-3	24 Oct 01
		CN	01817871.5	24 Oct 01
		DE	N/A	N/A
		EP	01989326.2	24 Oct 01
		FR	N/A	N/A
		GB	N/A	N/A
		IN	437/KOL NP/03	24 Oct 01
		IT	N/A	N/A
		ЛP	557111/02	24 Oct 01
		KR	03-7005633	24 Oct 01
		MX	03/003494	24 Oct 01
		US	10/415021	24 Oct 01



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Puo16063

MAY 30, 2002

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P.O. BOX 5312
PRINCETON, NEW JERSEY 08543-5312

Commissioner for Trademarks Arlington, VA 22202-3513 www.uspto.gov



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RECORDATION DATE: 03/11/2002

REEL/FRAME: 012743/0793

NUMBER OF PAGES: 17

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BERKUN, KEN ALAN

DOC DATE: 09/07/2001

ASSIGNOR:

DAHL, AUSTIN DAVID

DOC DATE: 09/07/2001

ASSIGNOR:

KOLAR, JENNIFER LYNN

DOC DATE: 09/10/2001

ASSIGNOR:

LEE, SCOTT CHAO-CHUEH

DOC DATE: 10/29/2001

ASSIGNOR:

MCRAE, SHANNON E.

DOC DATE: 10/05/2001

ASSIGNOR:

MILLER, BRAD STEVEN

DOC DATE: 09/10/2001

ASSIGNOR:

PRINCE, JOHN

DOC DATE: 1

10/22/2001

Deadline

Entered

15/86/67

012743/0793 PAGE 2

ASSIGNOR:

REHM, ERIC CARL DOC DATE: 09/21/2001

ASSIGNOR:

SUDANAGAGUNTA, SRINIVASAN DOC DATE: 09/06/2001

ASSIGNOR:

NOWITZ, JONATHAN ROBERT DOC DATE: 09/21/2001

ASSIGNEE:

THOMSON LICENSING S.A.
46 QUAI ALPHONSE LE GALLO
F-92100 BOULOGNE BILLANCOURT,
FRANCE

SERIAL NUMBER: 09876943 FILING DATE: 06/08/2001

PATENT NUMBER: ISSUE DATE:

KIMBERLY WHITE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

04-05-2002

PU010083 U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

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Jennifer Lynn Kolar, Scott Chao-Chueh Lee,	Name: Thomson Licensing S.A.
Shannon E. McRae, Brad Steven Miller,	
John Prince, Eric Carl Rehm,	
Srinivasan Sudanagunta and	
Jonathan Robert Nowitz	
on an an Robott Howitz	
A 182 - 1	Street Address: 46 quai Alphonse Le Gallo
Additional name(s) of X No	<del>6</del> - 3
conveying party(ies) attached:	Street Address: 46 quai Alphonse Le Gallo
attacheu.	F-92100 Boulogne Billancourt France
	Street Address: 46 quai Alphonse Le Gallo F-92100 Boulogne Billancourt France  City: Boulogne Billancourt  State: France
3. Nature of convenance:	City: Boulogne Billancourt State: France
X Assignment Merger	City: Boulogne Billancourt State: France
Security Agreement Change of Name	1 5
Other	~ 2 ?
	Additional name(s) & address(es) attached?
Execution Date: Sept. 7, 2001 - Sept. 7, 2001 - Sept. 10, 2001 -	Additional name(s) & address(es) attached? X No
Oct. 29, 2001 - Oct. 5, 2001 - Sept. 10, 2001 - Oct. 22, 2001 -	
Sept. 21, 2001 - Sept. 6, 2001 and Sept. 21, 2001 respectively.	
4. Application number(s) or patent number(s): Serial No. 09/876,943	
If this document is being filed together with a new application, the execu	
A. Patent Application No.(s) U.S. 09/876,943	B. Patent No.(s)
A 1 P.2 1 1 1 10	
Additional numbers attached?	X No
5. Name and address of party to whom correspondence	L6 Test and Control of the Control o
concerning document should be mailed:	6. Total number of applications and patents involved:1
Name: JOSEPH S. TRIPOLI	
Internal Address: PATENT OPERATIONS	7 T . 1 F . (07 CFP 0 41)
THOMSON multimedia Licensing Inc.	7. Total Fee (37 CFR 3.41): \$40.00
THOMSON matumedia Electisting Inc.	Enclosed
Street Address: PO Box 5312	X_ Authorized to be charged to deposit account  8. Deposit account number:
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City: PRINCETON State: NEW JERSEY Zip:08543-5312	07-0032
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Joel M. Fogelson	10.21, 2002
	eg. No. 43,613 Date
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including time for reviewing the document and gathering the data needed, ar	oout 30 minutes per document to be recorded,
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Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Manage	ement and Budget, Paperwork Reduction Project
(0651-0011), Washington, D.C. 20503.	

/04/2002 GTBN11

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09876943

40.00 CH

joint inventors

10

### ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor is no (if plural inventors are named below) of the inventions relating to	amed below) o INTERPRETIVE	or one of	
	first se	hipo 8, 2001	Under Serial No.
described in an application for Letters Patent of the United States of Americ		June 8, 2001	09/876.943
or, if not identified here by filing date and serial n			
Assignment/Agreement. For valuable consideration received, I hereby sell, assign and transfr and existing under the laws of the country of France, its successors, and assign and countries in and to said inventions, and all the rights and privileges under any divisions, continuations, reissues and extensions thereof.  I agree that, when requested, I will, without charge to said corport declarations and do all acts which may be necessary, desirable or convelled inventions in any and all countries and for vesting title thereto in said corporations.	der any and a ation but at Its plent for secur	expense, sign all paper na and maintaining pat	be granted therefor, s, take all rightful oaths, make all rightful ents or other forms of protection for said
I agree that I will communicate to said corporation or its represented requested by said corporation and at its expense will testify in any legal protts successors, assigns and legal representatives or nominees, to obtain or eight successors, assigns and authorize and empower said corporation, its successors, assigns a inventions in its or their own name, or in my/our name, in any and all continuous protections.	oceedings, and inforce proper in or nominees, to untries and to l	generally do everything protection for said invent make application for provoke and claim for an	possible to aid said corporation.  ions in any and all countries.  atent or other form of protection for said  y application for patent or other form of  convention for the Protection of Industrial
Property, as amended, or by any convention which may henceform be	substituted for	it, and to invoke and o	claim such right of priority without turmer
written or oral authorization from me.	d a full local	and formal equivalent o	of any assignment, consent to file or like
I hereby consent that a copy of this assignment shall be deemed document which may be required in any country for any purpose and more or nominees to apply for patent or other proper protection for sald invent International Convention for the Protection of Industrial Property, as amend I covenant with THOMSON LICENSING S.A., its successors, assigns, let title and interest herein conveyed by me are free and clear of any encumb	ions, and to cl led, or by any c	aim the aforesaid beneft convention which may heartives, and nominees, the	its of the right of priority provided by the enceforth be substituted for it.  at to the best of my knowledge the right,
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Signed at Seattle, Washington	ate	9-07	77
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triventor (1) KEN ALAN BERKUN		nature in Full. No Initials.	<u> </u>
(Type or Print)	(Sig	naragarran. 140 minolo.	′
Post Office Address 1554 NE 95 <sup>th</sup> Street, Seatt	le, Washin	gton 98115	
N R-du		San E.	nde
1st Witness Diane Drady	(Sic	porture in Eull No Initials.	
(Type or Print)		Tin May	
2ndWitness Anthony Wilgering		NUNU ()	
(Type or Print)		nature in Full. No Initials	
Signed at Seattle, Washington	)ate	7/7/01	
Inventor (2) AUSTIN DAVID DAHL	<u>a</u>	L Orm	J. Daniel
(Type or Print)	(Sig	nature in Full." No initials.	)
Post Office Address 2039 26th Ave. E., Seattle	e, Washing	ton 98112	- A
1st Witness Michael Gr. Waitlen	A M	nature in Full, No initiols	ally
(Type or Print)  2001Witness Anthony Wilgering	(3)	Hotel In	1/me
2ndWitness (Type or Print) Vi (QC ( 1/4)	(SK	plature in Full. No Inlitials	
Signed at Seattle, Washington	Date	9110/2001	
Inventor (3) JENNIFER LYNN KOLAR (Type or Print)	(Sie	prlature in Full. No Initials	)
2100	01 0	Machinatan 00	103
Post Office Address 3626 Fremont Lane N #2	(_	gnature in Full. No Initials	S-Walle.
2ndWitness (Type or Print)  2ndWitness	Ŷ	gnature in Full. No initials	
After this Assignment has I BEST AVAIL	ABLE	COPY	Patent Operations THOMSON multimedia Licensing Inc.
D-A5 7/00			P.O. Box 5312 Princeton, NJ 08543-5312

I hereby declare that I am the sole inventor (if only one invent (if plural inventors are named below) of the inventions relating to	tor is named below; METADATA	or one of 10 QUALITY IMPROVEMENT PRO	joint inventors
described in an application for Letters Patent of the United States of A	America filed on	June 8, 2001	Under Serial No. 09/876,943
or, if not identified here by filing date and		uted by me on even date v	
Assignment/Agreement.  For valuable consideration received, I hereby sell, assign and and existing under the laws of the country of France, its successors, at for all countries in and to said inventions, and all the rights and priviler and any divisions, continuations, reissues and extensions thereof.  I agree that, when requested, I will, without charge to said a declarations and do all acts which may be necessary, desirable or inventions in any and all countries and for vesting title thereto in said I agree that I will communicate to said corporation or its representatives or said corporation and at its expense will testify in any legits successors, assigns and legal representatives or nominees, to obta I authorize and empower said corporation, its successors, as inventions in its or their own name, or in my/our name, in any and a protection for said inventions filed by it or them, the benefit of the in Property, as amended, or by any convention which may hencefor written or oral authorization from me.  I hereby consent that a copy of this assignment shall be a document which may be required in any country for any purpose and or nominees to apply for patent or other proper protection for said International Convention for the Protection of Industrial Property, as an expenser.	I transfer to THOMSO and assigns my entire ges under any and corporation but at convenient for sec corporation, its successentatives any fac gal proceedings, at in or enforce propesigns or nominees, all countries and to ght of priority provinth be substituted for the substituted for the substituted for more particularly inventions, and to amended, or by a strong seed teaps seed to proper seed the substitute of the substitu	DN LICENSING S.A., a corpore right, title and interest, all Letters Patent that may be a letter patent pate	ration duly organized  be granted therefor.  take all rightful oaths, make all rightful ints or other forms of protection for said is said Inventions and when cossible to aid said corporation, ons in any and all countries.  tent or other form of protection for said application for patent or other form of convention for the Protection of Industric aim such right of priority without furthe any assignment, consent to file or like aid corporation or its successors, assign s of the right of priority provided by the moreforth be substituted for it.
title and Interest herein conveyed by me are free and clear of any e	ncumbrance, and	that I have full right to conve	ey the same as herein expressed.
Signed at Seattle, Washington	Date	16 201 2001	
Inventor (4) SCOTT CHAO-CHUEH LEE (Type or Print)	_ · \(\frac{\lambda}{\lambda}\)	Azt Chair - Chia ignature in Full. No initials.)	h L
Post Office Address 2031 151 Ave. SE, Be  1st Witness Y Veter Lee  (Type or Print)  2ndWitness Hsich Hung Lee	(S	Ruth Luc ingnature in Full. No initials.) HSich [444]	Lee
(Type or Print)	(5	ignature in Full. No initials.)	
Signed at Seattle, Washington	Date		
Inventor (5) SHANNON E. MCRAE (Type or Print)	-	Signature in Full. No initials.)	
Post Office Address 1422 E. Union, #106,	Seaffle, Wash	nington 98122	
1st Witness (Type or Print)		Signature in Full. No initials.)	
2ndWitness (Type or Print)		Signature in Full. No initials.)	
	Date		
Signed at Seattle, Washington			
Inventor (6) BRAD STEVEN MILLER (Type or Print)		Signature in Full. No initials.)	
Post Office Address 9302 SE 43 <sup>rd</sup> Street, 1	Mercer Island,	Washington 98040	)
1st Witness (Type or Print)		Signature in Full. No initials.)	
2ndWitness (Type or Print)		Signature in Full. No initials.)	

After this Assignment has been recorded please RETURN to:

# ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one inventor (if plural inventors are named below) of the inventions relating to	r is named be METAD	elow) or one of 10 joint inventors PATA QUALITY IMPROVEMENT PROCESS
A Latter Chates of An	period filed o	on June 8, 2001 Under Serial No.
described in an application for Letters Patent of the United States of An	, indica inca c	09/876,942
or, if not identified here by filing date and se	rial number,	executed by me on even date with my execution of this
declarations and do all acts which may be necessally desirable of the Inventions in any and all countries and for vesting title thereto in sald collinventions in any and all countries and for vesting title thereto in sald collinventions in the communicate to said corporation or its representatives of sald the sald corporation and all the successors, assigns and legal representatives or nominees, to obtain a lauthorize and empower said corporation, its successors, assigniventions in its or their own name, or in my/our name, in any and all protection for said inventions filled by it or them, the benefit of the right property, as amended, or by any convention which may henceforth written or oral authorization from me.  I hereby consent that a copy of this assignment shall be dedocument which may be required in any country for any purpose and document which may be required in any country for any purpose and	personation but onvenient for orporation but onvenient for orporation, it sentatives and proceeding or nominal in countries and the of priority in the substitute of more particuted in more particuted on the orporation of the orp	and all Letters Patent that may be granted therefor,  at at its expense, sign all papers, take all rightful oaths, make all rightful in securing and maintaining patents or other forms of protection for said is successors, assigns or nominees.  By facts known to me respecting said inventions and when gs, and generally do everything possible to aid said corporation, become protection for said inventions in any and all countries, lees, to make application for patent or other form of protection for said ind to invoke and claim for any application for patent or other form of provided by the International Convention for the Protection of Industrial ted for it, and to invoke and claim such right of priority without further  I legal and formal equivalent of any assignment, consent to file or like invalid in proof of the right of the said corporation or its successors, assigns and to claim the aforesald benefits of the right of priority provided by the ory any convention which may henceforth be substituted for it.
THE GIG THEEST NOTON CO.		
signed at Seattle, Washington	_ Date _	
Inventor (4) SCOTT CHAO-CHUEH LEE  (Type or Print)		(Signature in Full. No initials.)
Post Office Address 2031 151 Ave. SE, Bell	levue, W	ashington 98007
1st Witness (Type or Print)		(Signature In Full. No Initials.)
2ndWitness (Type or Print)		(Signature in Full. No initials.)
	Date	10.07.04
signed at Seattle, Washington	<del></del> ·	Ti di k
Inventor (5) SHANNON E. MCRAE (Type or Print)	_	(Signature In Full. No initials.)
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Post Office Address 1422 E. Union, #106, S	<u>Seattle, V</u>	Vashington 98122
1st Witness (Type or Print)	_	(Signature in Full. No Initials.)
2ndWitness	_	(Signature in Full. No Initials.)
Signed at Seattle, Washington	Date —	
Inventor (6) BRAD STEVEN MILLER (Type or Print)		(Signature in Full. No Initials.)
Post Office Address 9302 SE 43 <sup>rd</sup> Street, N	Aercer Isl	and, Washington 98040
1st Witness (Type or Print)	<del></del>	(Signature in Full. No Initials.)
2ndWitness(Type or Print)		(Signature in Full. No initials.)

After this Assignment has been recorded please RETURN to:

I hereby o	declare that I am the sote inventor (if only one inventor i	s named	below) or one of	10	joint inventors	
(If plural inventors	are named below) of the inventions relating to	工	nterpretive	Stream	Metadata Extrac	<u>ction</u>
described in an a	pplication for Letters Patent of the United States of Ame	erica filec	don J	une 8, 2001	Under Serial No. 09/876,942	
	or, if not identified here by filing date and series	ai numbe	r, executed by me	on even date w		
and existing under for all countries in and any divisions. I agree it declarations and inventions in any i agree it requested by sale its successors, associated inventions in its opposed in the property, as ame written or oral authorized in the property of the property	ble consideration received. I hereby sell, assign and tra  or the laws of the country of France, its successors, and  in and to said inventions, and all the rights and privileges  continuations, reissues and extensions thereof,  and, when requested, I will, without charge to said corp.  I do all acts which may be necessary, desirable or corp.  and all countries and for vesting title thereto in said corp.  and I will communicate to said corporation or its represent  decorporation and at its expense will testify in any legal  igns and legal representatives or nominees, to obtain or  ee and empower said corporation, its successors, assign  of hier own name, or in my/our name, in any and all or  inventions filed by it or them, the benefit of the right  winded, or by any convention which may henceforth to  thorization from me.  consent that a copy of this assignment shall be deer  may be required in any country for any purpose and in  pply for patent or other proper protection for said inventions of the Protection of industrial Property, as ame  to the transfer of the consent that the consent content in the protection of industrial Property, as ame  to the transfer of the protection of industrial Property, as ame  to the transfer of the protection of industrial Property, as ame  to the transfer of the protection of industrial Property, as ame  to the transfer of the protection of industrial Property, as ame  to the transfer of the protection of industrial Property, as ame  to the protection of industrial Property, as ame  to the protection of the protection	assigns munder are under are poration in the poration, intatives a proceeding or enforce as or normal countries of priorith per substitutions, a under a funded, or substitutions, a leading the substitutions are substitutions.	ly entire right, title ainy and all Letters Parana and all Letters Parana and an its successors, assigning facts known to rings, and generally or proper protection tinees, to make appand to invoke and y provided by the inuted for it, and to its legal and formal cularly in proof of thind to claim the afc by any convention presentatives, and	nd Interest, then that may be a light all papers, to a light and the same and the	e granted therefor, take all rightful oaths, make a sts or other forms of protection aid inventions and when ossible to aid said corporation as in any and all countries, ent or other form of protection application for patent or othe avention for the Protection of a such right of priority withou any assignment, consent to fi did corporation or its successor of the right of priority provide ceforth be substituted for it.	n for said or form of Industrial ut further ille or like s, assigns d by the
title and interest t	nt with THOMSON LICENSING S.A., its successors, casignate the conveyed by me are free and clear of any encu	mbrance	, and that I have fu	I right to convey	y the same as herein expressed	d.
Signed at	Seattle, Washington	Date				
Inventor (4)	SCOTT CHAO-CHUEH LEE					
	(Type or Print)		(Signature in Fu	II. No initials.)		
Po	ost Office Address 2031 151 Ave. SE, Belle	vue, W	ashington 98	007		
1st Witness	(Type or Print)		(Signature in Fu	II. No initials.)		
2ndWitness	(Type or Print)		(Signature in Fu	II. No Initials.)		
Signed at	Seattle, Washington	Date				
Inventor (5)	SHANNON E. MCRAE		(Signature in Fu	II. No initials.)		
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Po	ost Office Address 1422 E. Union, #106, Sec	anie, v	vasningion 9	0122		
1st Witness	(Type or Print)		(Signature in Fu	li. No Initials.)		
2ndWitness	(Type or Print)		(Signature In Fu	il. No Initials.)		
Signed at	Seattle, Washington	Date	9-10-2	001	" (0.0	
inventor (6)	BRAD STEVEN MILLER (Type or Print)		(Signature in Fu	III. No initials.)	Mille	
1st Witness	ost Office Address 9302 SE 43 <sup>rd</sup> Street, Mer	cer Isla	(Signature in Fu	MAN	all	
2ndWitness	Anthony Wiegeria	)	(Signature in Fu	ill. No initials.)	y grand	
	After this Assignment has	s been re	corded please RETI	IRN to: Po	itent Operations	

After this Assignment has been recorded please RETURIN TO

I hereby declare that I am the sole inventor (if only one Inventor is named below) or one of 10 joint inventors  (if plural inventors are named below) of the inventions relating to METADATA QUALITY IMPROVEMENT PROCESS	
WELDENIA ADALIT INFROVENIENT PROCESS	_
described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,942	-
or, if not identified here by filing date and serial number, executed by me on even date with my execution of this Assignment/Agreement.	
For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest,	
for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor,	
and any divisions, continuations, relssues and extensions thereof.  I agree that, when requested, I will, without charge to sald corporation but at its expense, slgn all papers, take all rightful oaths, make all rightful oaths.	ightfu
declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.	ir said
I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation,	
Its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.  I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for	
inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other for	orm of
protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Ind Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without from the protection of the protection of Index or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without from the protection of Index or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without from the protection of Index or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without from the protection of Index or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without from the protection of Index or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without from the protection of Index or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without from the Index or by	ustrial urther
written or oral authorization from me.  I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or	or like
document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, a or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by	ssians
International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.  I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the	-
title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.	iigi ii,
Signed at Seattle, Washington Date 10/22/01/1	
Seame, was in grott	
Inventor (7) JOHN PRINCE	
(Type or Print)	
Post Office Address P.O. Box 5028, Bellevue, Washingforg 98009	
1st Witness Philip C. Evans thill Clark Total	
(Type or Print) (Signature in Full. Notinitials.)	
2ndWitness cleanning K. Law Span letaen	
(Type or Print) (Signature in Full. No initials.)	
Signed at Seattle, Washington Date	
Inventor (8) ERIC CARL REHM	
(Type or Print) (Signature in Full. No initials.)	
Post Office Address 353 Wallace Way NE #3, Bainbridge Island, Washington 98110	
1st Witness	
(Type or Print) (Signature in Full. No initials.)	
2ndWitness	
(Type or Print) (Signature in Full. No initials.)	
Signed at Seattle, Washington Date	
Inventor (9) SRINIVASAN SUDANAGUNTA	
(Type or Print) (Signature in Full. No initials.)	
Post Office Address 913 26 <sup>™</sup> Avenue E., Seattle, Washington 98112	
713 20 Avenue E., Sedille, Washington 98112	
1st Witness (Type or Print) (Signature in Full. No initials.)	
2ndWitness (Type or Print) (Signature in Full. No initials.)	

I hereby (if piural inventor	declare that i am the sole inventor (if only one inventor s are named below) of the inventions relating to	is named	nterpretive stream	an metadata Extrac	tion
described in an	application for Letters Patent of the United States of Am	erica filed	on June 8, 2001	Under Serial No.	<del></del>
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Assignment/Agr	or, if not identified here by filing date and ser				
For value	able consideration received, I hereby sell, assign and tro er the laws of the country of France, its successors, and	ansfer to Th	HOMSON LICENSING S.A., a cor	poration duly organized	
for all countries in	n and to said inventions, and all the rights and privilege:	s under an	y and all Letters Patent that ma	y be granted therefor,	
Lagree t	s, continuations, reissues and extensions thereof. that, when requested, I will, without charge to said cor	rporation b	out at its expense, sign all pape	ers, take all rightful oaths, make al	ll rightful
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Its successors as	d corporation and at its expense will testify in any legal signs and legal representatives or nominees, to obtain o	or enforce	proper protection for said inver	ntions in any and all countries.	
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Loveno	nvention for the Protection of Industrial Property, as ame ant with THOMSON LICENSING S.A., its successors, assign	rs. leaal re	presentatives, and nominees, t	nat to the best of my knowledge t	he right,
title and interest	herein conveyed by me are free and clear of any encu	umbrance	, and that I have full right to cor	nvey the same as herein expressed	i.
Signed at	Seattle, Washington	Date			
	deathe, was inigion				
Inventor (7)	JOHN PRINCE				
	(Type or Print)		(Signature in Full. No initials	.)	
P	ost Office Address P.O. Box 5028, Bellevue	a Wash	ninaton 98009		
	F.O. DOX 0020, Delie val	C, VV CISI	iii igiori 70007		
1st Witness	Company Dright		(Signature in Full. No initials		
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2ndWitness	(Type or Print)		(Signature in Full. No initials	.)	
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Signed at	Seattle, WA	Date	21- Sept-200		
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Inventor (8)	(Type or Print)		(8tgnature in Full. No initials		
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P	ost Office Address 353 Wallace Way NE #	3, Bain	bridge Island, Washing	gton 98110	
1st Witness	Jeff Feyler		and he		
131 441111033	(Type or Print)		Monatare in Full. No initials	i.)	
2ndWitness	Tim Faguar		Two Lag	un	
	(Type or Print)		(Signature in Full. No Initials	5)	
Signed at	Seattle, Washington	Date	Coot la	200)	
0.9.1000.	seame, washington		34111	7.6.0	
Inventor (9)	SRINIVASAN SUDANAGUNTA		ST-V		
,	(Type or Print)		(Signature in Full. No initials	5.)	
	ost Offiçe Address 913 26 <sup>™</sup> Avenue E., Se	attle M	Jashinaton 08112		
	713 ZO AVEILUE E., SE	une, v	A TOTAL		
1st Witness	Diane Drady	,	Calgrature in Full. No initial	70-14	
	(Type or Print)		A A A		
2ndWitness	(Ivoe or Print)	1	(Signature in Full. No haithfull		

After this Assignment has been recorded please RETURN to:

I hereby declare that I am the sole inventor (If only one inventor is r	named below) or one o	f 10	_ joint inventors	
(If plural inventors are named below) of the inventions relating to			, Metadata	Extraction
described in an application for Letters Patent of the United States of Ameri	ica filed on	June 8, 2001	Under Serial No. 09/876.942	
or, if not identified here by filing date and serial	number, executed by r	ne on even date with		
Assignment/Agreement.  For valuable consideration received. I hereby sell, assign and trans and existing under the laws of the country of France, its successors, and as for all countries in and to said inventions, and all the rights and privileges us and any divisions, continuations, relissues and extensions thereof.  I agree that, when requested, I will, without charge to said corporations and do all acts which may be necessary, desirable or convex inventions in any and all countries and for vesting title thereto in said corporations in any and all countries and for vesting title thereto in said corporations are used by said corporation and at its expense will testify in any legal profits successors, assigns and legal representatives or nominees, to obtain or expressions in its or their own name, or in my/our name, in any and all control in the interest in their own name, or in my/our name, in any and all control in the result of the right of Property, as amended, or by any convention which may henceforth be written or oral authorization from me.  I hereby consent that a copy of this assignment shall be deemed document which may be required in any country for any purpose and mor or nominees to apply for patent or other proper protection for said inventintentational Convention for the Protection of Industrial Property, as amended. I covenant with THOMSON LICENSING S.A., its successors, assigns, little and interest herein conveyed by me are free and clear of any encumb	ster to THOMSON LICEN, signs my entire right, tith noder any and all Letters oration but at its expensional professors, at atives any facts known occedings, and general enforce proper protection or nominees, to make a furnity provided by the substituted for it, and led a full legal and former particularly in proof of tions, and to claim the lead, or by any conventives and representatives, and a full end or the particularity in proof of the substituted for it.	siNG S.A., a corporation of and interest, Patent that may be a sign all papers, tal maintaining patents signs or nominees, or me respecting said lily do everything possion for said inventions in polication for patent and claim for any apparation of the material equivalent of any fitte right of the said aforesaid benefits of on which may henced in nominees, that to	on duly organized granted therefor, ke all rightful oaths, no or other forms of profit inventions and where sible to ald said corporn any and all countries or other form of profilication for patent of ention for the Protectif such right of priority or assignment, conservation or its such the right of priority of profit be substituted for the best of my knowledge.	tection for said  pration, es, tection for said or other form of ion of industrial without further  at to file or like cessors, assigns rovided by the or it, edge the right,
	Date 9/21/0			
Inventor (10) JONATHAN ROBERT NOW IT	Z <u>hww.</u> /(Signature in	Full. No Initials.) 2	- -	
Post Office Address 2302 NE 92nd S	street, Seattle	, Washingto	n 98115	
1st Witness Tid ( Fessie / (Type or Print)	(Signature in	Full. No inittats.)		
2ndWitness Tim Fagnan (Type or Print)	(Signature in	Full. No initials.)	<i></i>	
Signed atD	pate			
(Type or Print)	(Signature in	Full. No Initials.)		_
Post Office Address				

1st Witness

2ndWitness

(Type or Print)

(Type or Print)

(Signature in Full. No initials.)

(Signature in Full. No initials.)

## ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

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described in an application for Letters Patent of the United States of America	ca filed on	June 8, 2001	Under Serial No.
or, If not identified here by filing date and serial r	number, executed	by me on even date w	09/876,943 th my execution of this
Assignment/Agreement. For valuable consideration received, I hereby sell, assign and transf and existing under the laws of the country of France, its successors, and ass for all countries in and to said inventions, and all the rights and privileges un and any divisions, continuations, reissues and extensions thereof.  I agree that, when requested, I will, without charge to said corpor declarations and do all acts which may be necessary, desirable or conve inventions in any and all countries and for vesting title thereto in said corpor I agree that I will communicate to said corporation or its representate successors, assigns and legal representatives or nominees, to obtain or endeaded in a confideration of the representations in its or their own name, or in my/our name, in any and all countries and empower said corporation, its successors, assigns of inventions in its or their own name, or in my/our name, in any and all countries and inventions filed by it or them, the benefit of the right of property, as amended, or by any convention which may henceforth be swritten or oral authorization from me.  I hereby consent that a copy of this assignment shall be deemed document which may be required in any country for any purpose and more or nominees to apply for patent or other proper protection for said Invention to the Protection of Industrial Property, as amended.	Igns my entire right der any and all Le ation but at its ex nlent for securing ration, its successor strives any facts knowed and gentious proper profur nominees, to monthles and to invopriority provided bubstituted for it, of a full legal and a particularly in proons, and to claim ons, and to claim and, or by any consider any and to claim and, or by any consider any and to claim and, or by any consider any and to claim and, or by any consider any and to claim and, or by any consider any and to claim and, or by any consider any and to claim and, or by any consider any and to claim and any any consider any and to claim and any any consider any and to claim and any any consider any and to claim any and any any consider any	t, title and interest, titles Patent that may be pense, sign all papers, the and maintaining patents, assigns or nominees. Own to me respecting so ection for said invention like application for pate ke and claim for any any the international Contain to invoke and claim formal equivalent of a sof of the right of the said the aforesaid benefits.	e granted therefor,  cake all rightful oaths, make all right ts or other forms of protection for so  all dinventions and when  assible to ald said corporation,  is in any and all countries.  In or other form of protection for so  pplication for patent or other form  vention for the Protection of Industri  in such right of priority without furth  any assignment, consent to file or lift and corporation or its successors, assig  of the right of priority provided by the
I covenant with THOMSON LICENSING S.A., Its successors, assigns, le title and interest herein conveyed by me are free and clear of any encumb	aal representative	s, and nominees, that to	n the best of my knowledge the righ
	ate		
Inventor (1) KEN ALAN BERKUN			···
(Type or Print)	(Signatu	re in Full. No initials.)	
Post Office Address 1554 NE 95 <sup>th</sup> Street, Seattle  1st Witness (Type or Print)		n 98115 re in Full. No initials.)	
2ndWitness			•
(Type or Print)	(Signatu	e In Full. No Initials.)	
Signed at Seattle, Washington Do			
Inventor (2) AUSTIN DAVID DAHL			
(Type or Print)	(Signatu	e in Full. No initials.)	
Post Office Address 2039 26 <sup>th</sup> Ave. E., Seattle,	Washington	98112	
1st Witness (Type or Print)	(Signatur	e in Full. No Initials.)	
2ndWitness (Type or Print)	(Signatur	e in Full. No initials.)	
Signed at Seattle, Washington Day		e in Pail. No ir finais.)	
Inventor (3) JENNIFER LYNN KOLAR			
(Type or Print)	(Signatur	e in Full. No initials.)	
Post Office Address 3626 Fremont Lane N #201	, Seattle, Wo	ishington 98103	
1st Witness			
(Type or Print)	(Signatur	e in Full. No initials.)	

After this Assignment has been recorded please RETURN to:

(Signature in Full. No inItials.)

Patent Operations THOMSON multimedia Ucensing Inc. P.O. Box 5312 Princeton, NJ 08543-5312

(Type or Print)

# ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

(if plural inventors are named below) of the invention	r (If only one inventor is named below) or one of 10 joint inventors ons relating to INTERPRETIVE STREAM METADATA EXTRACTION
described in an application for Letters Patent of the	e United States of America filed on June 8, 2001 Under Sertal No.
	onder sellativo.
Assignment/Agreement.	09/876,943 by filing date and serial number, executed by me on even date with my execution of this
and existing under the laws of the country of France	by sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized e, its successors, and assigns my entire right, title and interest,
for all countries in and to said inventions, and all the	e rights and assigns my entire right, title and interest,
Lagree that when requested Livill without	A share to the state of the sta
declarations and do all acts which may be necess	istors intereor.  It charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightsul or convenient for securing and maintaining patents or other forms of protection for state the thereto in said corporation, its successors, assigns or parties.
I garee that I will communicate to said some	
requested by said corporation and at its expense w	poration or its representatives any facts known to me respecting said inventions and when will testify in any legal proceedings, and generally do everything possible to ald said corporation, cominees, to obtain or enforce proper protection for each time of the said corporation.
Quithorize and empower said corporation	the state of the proper protection for said inventions in any and all countries
oventions in its or their own name, or in my/aux	
Property, as amended, or by any convention which	time, in any and all countries and to invoke and claim for any application for patent or other form to benefit of the right of priority provided by the International Convention for the Protection of Indust the may henceforth be substituted for it, and to invoke and claim such right of priority without furt
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document which may be required in any country to	nment shall be deemed a full legal and formal equivalent of any assignment, consent to file or I or purpose and more particularly in proof of the right of the said corporation or its successors, assignment for said inventions, and to claim the aforesaid beneating the proof of the right of the proof of the proof of the said corporation or its successors, assignment.
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LCOVERGET WITH THOMSON LICENSING & A ::	to the substituted for it
fle and interest herein conveyed by me are free an	is successors, assigns, legal representatives, and nominees, that to the best of my knowledge the rig ad clear of any encumbrance, and that I have full right to convey the same as herein expressed.
0'	
Seattle, Washington	Date
Inventor (1) KEN ALAN BERKUN	
(Type or Print)	
( )	(Signature in Full. No initials.)
Post Office Address 1554 NE 9	95 <sup>th</sup> Street, Seattle, Washington 98115
1st Witness	The state of the s
(Type or Print)	(Cincal Line)
2ndWitness	(Signature in Full. No initials.)
(Type or Print)	
	(Signature in Full. No initials.)
Signed at Seattle, Washington	Date
Inventor (2) AUSTIN DAVID DAHL	
(Type or Print)	(Signature in Full. No initials.)
Post Office Address 2030 26th	A
_2039 20	Ave. E., Seattle, Washington 98112
1st Witness	
(Type or Print)	(Signature in Full. No initials.)
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(Type or Print)	(Signature in Full. No initials.)
Signed at Sporttle Washington	
Seattle, Washington	Date
Inventor (3) IENINIEED LYNIN ICOLAR	
JENNIFER LYNN KOLAR (Type or Print)	<del></del>
(type of Filtit)	(Signature in Full. No initials.)
Post Office Address 3626 Fremo	ont Lane N #201, Seattle, Washington 98103
	on Earle 14 #201, seattle, wasnington 98103
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(if plural invento	declare that I am the sole inventor (if only one inventors are named below) of the inventions relating to	or is name INT	d below) or one of 10 joint inventors ERPRETIVE STREAM METADATA EXTRACTION	
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described in an	application for Letters Patent of the United States of A		ed on June 8, 2001 Under Serial No. 09/876,943  er, executed by me on even date with my execution of this	
Assignment/Ag	reement.			
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tor all countries i	n and to said Inventions, and all the rights and privileg s, continuations, reissues and extensions thereof.	es under c	any and all Letters Patent that may be granted therefor,	
l agree :	that, when requested. I will, without charge to said o	orporation	but at its expense, sign all papers, take all rightful oaths, make o	all rightful
inventions in any	and all countries and for vesting title thereto in said c	onvenient	tor securing and maintaining patents or other forms of protection	n for said
requested by sa	nat I will communicate to said corporation or its repre id corporation and at its expense will testify in any lear	sentatives al procee	any facts known to me respecting said inventions and when	
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1 COVEIIQ	IN WILL INCIDENT FICENSING S.A., ITS SUCCESSORS ASSIG	וחק ופתחו זמ	epresentatives, and nominees, that to the best of my knowledge to another than the same as herein expressed and that I have full right to convey the same as herein expressed.	the right,
				u.
Signed at	Seattle, Washington	Date		
Inventor (1)	KEN ALAN BERKUN			
İ	(Type or Print)		(Signature in Full. No initials.)	
D <sub>C</sub>	ost Office Address 1554 NE 05th Stroot Co			
	ost Office Address 1554 NE 95 <sup>th</sup> Street, Se	attle, W	/ashington 98115	
1st Witness				
	(Type or Print)		(Signature in Full. No initials.)	
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	() po or many		(Signature in Full. No initials.)	
Signed at	Seattle, Washington	Date		
Inventor (2)	ALICTINI DAVUD DALU			
	AUSTIN DAVID DAHL (Type or Print)		(Signature In Full. No initials.)	
			•	
Po	st Office Address 2039 26 <sup>th</sup> Ave. E., Seat	tle, Wa	shington 98112	
1st Witness				
	(Type or Print)		(Signature in Full. No initials.)	
2ndWitness				
	(Type or Print)		(Signature in Full. No initials.)	
Signed at	Seattle, Washington	Date		
Inventor (3)	IENNIEED I VNIN KOLAD			
	JENNIFER LYNN KOLAR (Type or Print)		(Signature in Full. No initials.)	
De.	A 0% A		,	
	st Office Address 3626 Fremont Lane N #	‡201, Se	eattle, Washington 98103	
1st Witness	(Type of Priet)			
	(Type or Print)		(Signature in Full. No initials.)	
2ndWitness _	(Type or Print)	-	(Signature in Full. No initials.)	

(Signature in Full. No initials.)

#### ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (if only one in (if plural inventors are named below) of the inventions relating to		ow) or one of <u>10</u> A QUALITY IMPROVEMENT PROC	joint inventors	
described in an application for Letters Patent of the United State	s of America filed on	June 8, 2001	Under Serial No. 09/876,943	
or, if not identified here by filing date of Assignment/Agreement.	and serial number, ex	ecuted by me on even date wit		
For valuable consideration received, I hereby sell, assign and existing under the laws of the country of France, its successor	ors, and assigns my en	tire right, title and interest,	· •	
for all countries in and to said inventions, and all the rights and pri and any divisions, continuations, reissues and extensions thereof.		d all Letters Patent that may be	granted therefor,	
I agree that, when requested, I will, without charge to s declarations and do all acts which may be necessary, desirable	aid corporation but o	at its expense, sign all papers, to	ake all rightful oaths, make a	ıll rightful
inventions in any and all countries and for vesting title thereto in so I agree that I will communicate to said corporation or its	said corporation, its su	accessors, assigns or nominees.		i for said
requested by said corporation and at Its expense will testify in an	ny legal proceedings,	and generally do everything po-	ssible to aid said corporation.	
its successors, assigns and legal representatives or nominees, to c I authorize and empower said corporation, its successors	s, assians or nominee:	s, to make application for pater	at or other form of protection	for said
inventions in its or their own name, or in my/our name, in any oprotection for said inventions filed by it or them, the benefit of the	he right of priority pro	vided by the International Conv	rention for the Protection of I	Industrial
Property, as amended, or by any convention which may henc written or oral authorization from me.	eforth be substituted	for It, and to Invoke and claim	n such right of priority withou	at further
I hereby consent that a copy of this assignment shall be document which may be required in any country for any purpose	oe deemed a full leg	gal and formal equivalent of ar	ny assignment, consent to file	e or like
or nominees to apply for patent or other proper protection for s	sald inventions, and to	o claim the aforesald benefits o	f the right of priority provided	d by the
International Convention for the Protection of Industrial Property, I covenant with THOMSON LICENSING S.A., its successors,	, assigns, legal repres	entatives, and nominees, that to	the best of my knowledge t	
title and interest herein conveyed by me are free and clear of ar	ny encumbrance, and	d that I have full right to convey	the same as herein expressed	<b>1</b> .
Signed at Seattle, Washington	Date			
Inventor (7) IOHN PRINCE				
Inventor (7) JOHN PRINCE (Type or Print)		(Signature in Full. No initials.)		
	·	organization in vicini. The initialist,	f	
Post Office Address P.O. Box 5028, Bel	levue, Washing	iton 98009		
1st Witness				
(Type or Print)	•	(Signature in Full. No initials.)		
2ndWitness(Type or Print)		Signature in Full. No initials.)		
(ype or many		organization in Francisco		
Signed at Seattle, Washington	Date	in the state of th		
Inventor (8) ERIC CARL REHM				
(Type or Print)		Signature in Full. No initials.)		
Post Office Address 353 Wallace Way	NE #2 Dainheis	las Islamal Mashinakan	00110	
353 Wallace Way	INE #3, BOINDRO	lge Island, Washington	98110	
1st Witness (Type or Print)	<del></del>	Signature in Full. No initials.)		
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2ndWitness		Signature in Full. No initials.)		
Signed at Seattle Washington	Date			
Seattle, Washington				
Inventor (9) SRINIVASAN SUDANAGUNTA				
(Type or Print)		Signature in Full. No Initials.)		
Post Office Address 913 26 <sup>™</sup> Avenue E	., Seattle, Wash	nington 98112		
1st Witness				
(Type or Print)		Signature in Full. No initials.)		
2ndWitness				
(Type or Print)		Signature in Full. No Initials.)		

After this Assignment has been recorded please RETURN to:

## ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

	declare that I am the sole inventor (if only o are named below) of the inventions relating		below) or one of $\frac{10}{10}$ joint inventors DATA QUALITY IMPROVEMENT PROCESS	
described in an a	pplication for Letters Patent of the United S	States of America filed	on June 8, 2001 Under Serial No. 09/876,943	
Assignment/Agre		late and seriai number	r, executed by me on even date with my execution of this	
For valuat		ssign and transfer to Th	HOMSON LICENSING S.A., a corporation duly organized	
for all countries in	and to said inventions, and all the rights a	nd privileges under an	y and all Letters Patent that may be granted therefor,	
i agree th	continuations, reissues and extensions the nat, when requested, I will, without charge	to said corporation b	out at its expense, sign all papers, take all rightful oaths, make	e all riahtf
declarations and	do all acts which may be necessary, des and all countries and for vesting title theret	irable or convenient fo	or securing and maintaining patents or other forms of protect	ion for sai
I agree th	at I will communicate to said corporation	or its representatives a	ny facts known to me respecting said inventions and when ngs, and generally do everything possible to aid said corporati	
its successors, assi	igns and legal representatives or nominees	, to obtain or enforce	proper protection for said inventions in any and all countries.	
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International Con	vention for the Protection of Industrial Prop	erty, as amended, or t	nd to claim the aforesaid benefits of the right of priority provicely any convention which may henceforth be substituted for it.	
l covenar title and interest h	nt with THOMSON LICENSING S.A., its succe serein conveyed by me are free and clear	ssors, assigns, legal reports of any encumbrance.	oresentatives, and nominees, that to the best of my knowledg and that I have full right to convey the same as herein express	e the right
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Signed at	Seattle, Washington	Date		_
Inventor (10)	IONIATIJANI DODEDT NIOVA	17		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	JONATHAN ROBERT NOW! (Type or Print)	<u> </u>	(Signature in Fuii. No initials.)	-
			,	
Pos	st Office Address 2302 NE 92 <sup>nd</sup> St	reet, Seattle, W	ashington 98115	4
1st Witness				_
	(Type or Print)		(Signature in Full. No initials.)	
2ndWitness _	(Turn and Drive)		(Cincolous in Full About 1871)	_
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Inventor (11)	(Type or Print)		(Signature in Full. No initials.)	4
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Inventor (12)	·			
	(Type or Print)		(Signature in Full. No initials.)	
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2ndWitness				i

After this Assignment has been recorded please RETURN to:

(Signature in Full. No initials.)

Patent Operations THOMSON multimedia Licensing Inc. P.O. Box 5312 Princeton, NJ 08543-5312

(Type or Print)

#### ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

	clare that I am the sole inventor (if only one inver re named below) of the inventions relating to	ntor is named be METAD	elow) or one of 10 joint inventors  ATA QUALITY IMPROVEMENT PROCESS
described in an app	olication for Letters Patent of the United States of		09/876,942
Assignment/Agree		l serial number,	executed by me on even date with my execution of this
and existing under for all countries in a and any divisions, a l agree that declarations and dinventions in any ar I agree that requested by said a its successors, assign and thorize inventions in its or the protection for said Property, as amena written or oral authorized in hereby condended the production of the country which means the protection for said authorized the country which means the protection for said authorized the country which means the protection for said authorized for the protection for said and protection for said authorized for the protection for said authorized for said authorized for the protection for said authorized for said authorized for said authorized for said authorized for said a	e consideration received, I hereby sell, assign and the laws of the country of France, its successors, on to said inventions, and all the rights and privile continuations, reissues and extensions thereof, t, when requested, I will, without charge to said to all acts which may be necessary, desirable or ad all countries and for vesting title thereto in said to the time of the	corporation but corporation but convenient for a corporation. Its irresentatives an agal proceeding ain or enforce possigns or nomine all countries ar ight of priority puth be substitutedeemed a full and more porticularly and and provided porticularly and	and all Letters Patent that may be granted therefor,  It at its expense, sign all papers, take all rightful oaths, make all rig  It securing and maintaining patents or other forms of protection for  It successors, assigns or nominees.  It facts known to me respecting said inventions and when  It gs, and generally do everything possible to aid said corporation,  It or or protection for said inventions in any and all countries.  It is easy to make application for patent or other form of protection for  It is not to invoke and claim for any application for patent or other form  It or
or nominees to apr	aly for patent or other proper protection for said	l inventions, and	d to claim the aforesaid benefits of the right of priority provided by y any convention which may henceforth be substituted for it.
Lovenant	with THOMSON LICENSING S.A., its successors, as	isians, leaal repr	resentatives, and nominees, that to the best of my knowledge the rand that I have full right to convey the same as herein expressed.
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Signed at	Seattle, Washington	Date _	
Inventor (4)	SCOTT CHAO-CHUEH LEE		
	(Type or Print)		(Signature in Full. No initials.)
Post	Office Address 2031 151 Ave. SE, Be	allevue Wa	ashinaton 98007
100.	2031 131 Ave. 3E, Be	ellevue, vvo	asimigron 70007
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2ndWitness	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Zi idvili iess	(Type or Print)		(Signature in Full. No initials.)
Signed at	Seattle, Washington	Date	
Inventor (5)	SHANNON E. MCRAE		
	(Type or Print)	<del></del>	(Signature in Full. No initials.)
Post	Office Address <u>1422 E. Union, #106,</u>	Seattle, W	ashington 98122
1st Witness			(Cinnetus in Full No Initials)
	(Type or Print)		(Signature in Full. No initials.)
2ndWitness	(Type or Print)		(Signature in Full. No initials.)
Signed at	Seattle, Washington	Date	
Inventor (6)	BRAD STEVEN MILLER (Type or Print)		(Signature in Full. No initials.)
Post	Office Address 9302 SF 43 <sup>rd</sup> Street M	Mercer Islan	nd, Washington 98040
	7002 01 40 011661, 1	1.0.001 Ididi	
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2ndWitness	(Type or Dript)		(Signature in Full No initials )

After this Assignment has been recorded please RETURN to:

#### ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

l hereby d (if plural Inventors	leclare that I am the sole inventor (if only one inventor are named below) of the inventions relating to	tor is named META	below) or one of DATA QUALITY IMPROVEN	10 MENT PROCESS	joint inventors	
described in an a	pplication for Letters Patent of the United States of A				Under Serial No. 09/876,942	
	or, If not Identified here by filing date and	serial numbe	r, executed by me on eve	en date with m	y execution of this	
Assignment/Agre For valuat	ole consideration received. I hereby sell, assign and	l transfer to Th	HOMSON LICENSING S.A.,	a corporation	duly organized	
and existing unde	r the laws of the country of France, its successors, a and to said inventions, and all the rights and privile	nd assigns m aes under an	y entire right, title and inte ov and all Letters Patent th	erest, nat mav be ard	anted therefor.	
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Lovenor	at with THOMSON LICENSING S.A., It's successors, ass	ilans, leaal re	presentatives, and nomin	ees, that to th	e best of my knowledge	the right,
title and interest h	erein conveyed by me are free and clear of any e	ncumbrance	, and that I have full right	to convey the	same as herein expresse	d.
Signed at	Seattle, Washington	Date				
	Seattle, Washington					
Inventor (7)	JOHN PRINCE					
	(Type or Print)	-	(Signature in Full. No	initials.)		
_						
Po	st Office Address P.O. Box 5028, Bellev	/ue, Wash	nington 98009			
1st Witness						
	(Type or Print)		(Signature in Full. No	initials.)		
2ndWitness						
	(Type or Print)		(Signature in Full. No	initials.)		
Signad at		Date	,			
Signed at						
Inventor (8)	ERIC CARL REHM					
	(Type or Print)		(Signature in Full. No	initials.)		
	• • • • • • • • • • • • • • • • • • • •					
Po	st Office Address 353 Wallace Way N	E #3, Bain	bridge Island, Wa	shington 9	98110	
1st Witness					İ	
131 11111033	(Type or Print)	_	(Signature In Full. No	Initials.)		
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Signed at	Seattle, Washington	Date -				
lavantas (C)	OF IN IN IA CAN LOUIS AND A CLINITA					
Inventor (9)	SRINIVASAN SUDANAGUNTA (Type or Print)		(Signature in Full. No	initials )		
	(Type of Film)		(oightalaid iit) aiii 110			
Po	st Office Address 913 26 <sup>TH</sup> Avenue E., S	Seattle, W	ashington 98112			
1st Witness	(Type or Print)		(Signature in Full. No	Initials.)		
	Cypo or may		<b>1.0</b>	•		
2ndWitness	(Type or Print)	<del></del>	(Signature In Full. No	initials.)		
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## ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

	eclare that I am the sole inventor (It only one inventor are named below) of the inventions relating to		d below) or one of 10 joint inventors TADATA QUALITY IMPROVEMENT PROCESS	
described in an ap	oplication for Letters Patent of the United States of Ar	nerica file	ed on June 8, 2001 Under Serial No.	
	or if not identified here by filing date and se	erial numbe	09/876,942 per, executed by me on even date with my execution of this	
and existing under for all countries in a any divisions. I agree the declarations and a inventions in any a I agree the requested by said its successors, assignentions in its or protection for said Property, as amen written or oral auth I hereby a document which no rominees to ap International Conv	ement.  Ile consideration received, I hereby sell, assign and to the laws of the country of France, its successors, and and to sald inventions, and all the rights and privilege continuations, reissues and extensions thereof.  at, when requested, I will, without charge to said codo all acts which may be necessary, desirable or cond all countries and for vesting title thereto in said at I will communicate to said corporation or its represent of I will communicate to said corporation or its represents and legal representatives or nominees, to obtain and empower said corporation, its successors, assignification or the right inventions filed by It or them, the benefit of the right inded, or by any convention which may henceforth horization from me.  Onsent that a copy of this assignment shall be demonst be required in any country for any purpose and uply for patent or other proper protection for said invention for the Protection of Industrial Property, as aments.	ransfer to T d assigns m es under an orporation orporation, entatives a al proceed or enforce gns or nom countries at of priority be substit emed a fu more parti ventions, a ended, or	THOMSON LICENSING S.A., a corporation duly organized my entire right, title and interest, any and all Letters Patent that may be granted therefor, and the title sequence of the securing and maintaining patents or other forms of protection, its successors, assigns or nomlinees. It is a support to the successors, assigns or nomlinees. It is any facts known to me respecting said inventions and when addings, and generally do everything possible to aid said corporation are proper protection for said inventions in any and all countries. The proper protection for said inventions in any and all countries and to invoke and claim for any application for patent or other tity provided by the International Convention for the Protection of the provided for it, and to invoke and claim such right of priority without full legal and format equivalent of any assignment, consent to fill titulated for it and to invoke and claim such right of priority provided or by any convention which may henceforth be substituted for it.	n for said of for said of form of Industrial of further le or like s, assigns d by the
title and interest he	rwim individual licensing s.A., its successors, assignated and clear of any end	ns, iegai re umbrance	representatives, and nominees, that to the best of my knowledge to se, and that I have full right to convey the same as herein expressed	the right, d.
Signed at	Seattle, Washington	Date		
-	Seame, was in gion			
Inventor (10)	JONATHAN ROBERT NOWITZ (Type or Print)		(Signature in Full. No initials.)	
Pos	t Office Address 2302 NE 92 <sup>nd</sup> Street, Se	attle, W	Washington 98115	
1st Witness _	(Type or Print)		(Signature in Full. No initials.)	
2ndWitness _	(Type or Print)		(Signature in Full. No initials.)	
Signed at		Date		
Inventor (11)				
	(Type or Print)		(Signature in Full. No initials.)	
Post	Office Address			
1st Witness _	(Type or Print)		(Signature in Full. No initials.)	
2ndWitness _	(Type or Print)	,	(Coppet up in Full No initials)	
	(Type of Print)		(Signature in Full. No initials.)	
Signed at —		Date		
Inventor (12)	(Type or Print)		(Signature in Full. No initials.)	
Post	Office Address		,	
1st Witness				
	(Type or Print)	,	(Signature in Full. No initials.)	
2ndWitness	(Type or Print)		(Signature in Full. No initials.)	

After this Assignment has been recorded please RETURN to:

### **~U010083**

## ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

	leclare that I am the sole inventor (If only one invento		
(if plural inventors	are named below) of the inventions relating to	MET.	ADATA QUALITY IMPROVEMENT PROCESS
described in an a	pplication for Letters Patent of the United States of A	merica filer	d on June 8, 2001 Under Serial No.
described in an a			or, executed by me on even date with my execution of this
Assignment/Agre	ement.		
For valuate and existing unde	ole consideration received, I hereby sell, assign and t r the laws of the country of France, its successors, an	transfer to T d assians m	HOMSON UCENSING S.A., a corporation duly organized by entire right, title and interest
for all countries in	and to said inventions, and all the rights and privileg- continuations, reissues and extensions thereof.	es under a	ny and all Letters Patent that may be granted therefor,
I agree th	at, when requested, I will, without charge to said co	orporation	but at its expense, sign all papers, take all rightful oaths, make all rightfu
declarations and inventions in any o	do all acts which may be necessary, desirable or c and all countries and for vesting title thereto in said c	onvenient orporation.	for securing and maintaining patents or other forms of protection for said its successors, assians or nominees.
I agree the	at I will communicate to said corporation or its repres	sentatives o	any facts known to me respecting said inventions and when ings, and generally do everything possible to aid said corporation,
its successors, assign	gns and legal representatives or nominees, to obtain	or enforce	proper protection for said inventions in any and all countries.
inventions in its or	their own name, or in my/our name, in any and al	1 countries	linees, to make application for patent or other form of protection for saic and to invoke and claim for any application for patent or other form o
protection for said	d inventions filed by it or them, the benefit of the righ	nt of priority	y provided by the International Convention for the Protection of Industria uted for It, and to invoke and claim such right of priority without furthe
written or oral auth	horization from me.		_ , ,
document which i	may be required in any country for any purpose and	more parti	all legal and formal equivalent of any assignment, consent to file or like cularly in proof of the right of the said corporation or its successors, assigns
International Conv	vention for the Protection of Industrial Property, as arr	nended, or	and to claim the aforesald benefits of the right of priority provided by the by any convention which may henceforth be substituted for it.
l covenan	it with THOMSON LICENSING S.A., Its successors, assig	ıns, legal re	presentatives, and nominees, that to the best of my knowledge the right, e, and that I have full right to convey the same as herein expressed.
Ine dia interest ti	eletificative year by the die liee and clear of any end	Juribiurice	s, and marriave tainight to convey me same as netein expressed.
Signed at	Seattle, Washington	Date	
Inventor (10)	JONATHAN ROBERT NOWITZ		
	(Type or Print)	3	(Signature in Full. No initials.)
Do-	t Office Address COOC NE CORT O		
1	st Office Address 2302 NE 92 <sup>nd</sup> Street, Se	eame, v	ashington 98115
1st Witness	· · · · · · · · · · · · · · · · · · ·	•	
	(Type or Print)		(Signature in Full. No initials.)
2ndWitness _	(Type or Print)		(Signature in Full. No Initials.)
	(type of Figure		(Signature in Fail. No annais.)
Signed at		Date	
Inventor (11)			
Inventor (11)	(Type or Print)		(Signature in Full. No initials.)
	(Type of Fill II)		(signature at ruii. No irinais.)
Pos	† Office Address		
1st Witness			
	(Type or Print)	•	(Signature In Full. No initials.)
2ndWitness			
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Signed at		Date	
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Inventor (12)			
	(Type or Print)		(Signature in Full. No initials.)
Pos	t Office Address		
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2ndWitness			

After this Assignment has been recorded please RETURN to:

(Signature in Full. No initials.)

Patent Operations THOMSON multimedia Ucensing Inc. P.O. Box 5312 Princeton, NJ 08543-5312

(Type or Print)